# Cytometer Performance Report

| | | | |
|---|---|---|---|
| Cytometer: | FACSCantoII | User: | Administrator |
| Cytometer Name: | FACSCantoII | Institution: | N/A |
| Serial Number: | V33896201821 | Software: | BD FACSDiva 8.0.2 |
| Input Device: | Carousel | Date: | 10/19/2020 09:15 AM |
| Tube Loaded Manually: | Yes | Cytometer Baseline: | 02/04/2020 09:45 AM |
| Cytometer Configuration: | Euroflow 3-laser, 8-color (4-2-2) | P/F: | Pass |

## Setup Beads

| | | | |
|---|---|---|---|
| Bead Product: | CST Setup Beads | Part #: | 910859 |
| Lot ID: | 80996 | Expiration Date: | 04/30/2020 (Expired) |
| Bead Lot Information: | Available | | |

## Detector Settings

| Laser | Detector | Parameter | Target Value | Actual Target Value | % Difference Target Value | Bright Bead % Robust CV | Mid Bead Median Channel | Mid Bead % Robust CV |
|---|---|---|---|---|---|---|---|---|
| Blue | FSC | FSC | 125000 | 127309 | 1 | 3.24 | 127503 | 3.25 |
| Blue | F | SSC | 125000 | 126189 | 0 | 2.02 | 126813 | 2.04 |
| Blue | E | FITC | 15892 | 15581 | -2 | 2.96 | 339 | 21.53 |
| Blue | D | PE | 29999 | 29828 | -1 | 2.08 | 648 | 15.76 |
| Blue | B | PerCP-Cy5-5 | 43732 | 43909 | 0 | 3.84 | 1175 | 21.66 |
| Blue | A | PE-Cy7 | 30845 | 30999 | 0 | 6.48 | 589 | 44.23 |
| Red | C | APC | 46112 | 45582 | -2 | 2.48 | 1609 | 12.31 |
| Red | A | APC-Cy7 | 30458 | 29913 | -2 | 2.39 | 793 | 12.04 |
| Violet | B | V450 | 7918 | 7652 | -4 | 4.31 | 446 | 12.75 |
| Violet | A | V500 | 32171 | 31341 | -3 | 4.18 | 734 | 10.40 |

## Detector Settings (Continued)

| Laser | Detector | Parameter | Dim Bead Median Channel | Dim Bead % Robust CV | PMTV | Δ PMTV | Qr | Br | P/F |
|---|---|---|---|---|---|---|---|---|---|
| Blue | FSC | FSC | 16991 | 18.75 | 657 | 36 | N/A | N/A | Pass |
| Blue | F | SSC | 58327 | 1.50 | 586 | 27 | N/A | N/A | Pass |
| Blue | E | FITC | 60 | 68.96 | 554 | 11 | 0.0171 | 136 | Pass |
| Blue | D | PE | 135 | 52.51 | 561 | 13 | 0.1356 | 244 | Pass |
| Blue | B | PerCP-Cy5-5 | 218 | 51.65 | 669 | 13 | 0.0079 | 24 | Pass |
| Blue | A | PE-Cy7 | 108 | 109.75 | 714 | 16 | 0.0093 | 14 | Pass |
| Red | C | APC | 385 | 25.24 | 589 | 5 | 0.0233 | 107 | Pass |
| Red | A | APC-Cy7 | 175 | 28.66 | 559 | 3 | 0.0054 | 887 | Pass |
| Violet | B | V450 | 67 | 57.53 | 462 | 4 | 0.0522 | 2028 | Pass |
| Violet | A | V500 | 109 | 31.57 | 478 | 4 | 0.0227 | 454 | Pass |

## Specifications

| | |
|---|---|
| PMTV Delta from baseline: | 50 (BD) |
| Violet Laser Primary Channel Bright Bead %Robust CV: | 6.00 (Recommended) |
| Blue Laser Primary Channel Bright Bead %Robust CV: | 6.00 (Recommended) |
| Red Laser Primary Channel Bright Bead %Robust CV: | 6.00 (Recommended) |

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## Laser Settings

| Laser | Power (mW) | Power Spec. (mW) | Current (mA) | Current Guidelines (mA) | Delay (Trigger on FSC) | Delay (Trigger on Fluorescence) | Area Scaling Factor |
|---|---|---|---|---|---|---|---|
| Violet | 59.55 | 47.98 - 71.98 | N/A | N/A | -33.04 | -32.59 | 1.01 |
| Blue | 20.36 | 16.27 - 24.41 | 1.26 | 0.99 - 1.49 | 0.00 | 0.00 | 1.41 |
| Red | 16.31 | 13.60 - 20.40 | N/A | N/A | 29.88 | 30.26 | 1.17 |

Window Extension: 7.00
FSC Area Scaling Factor: 0.74

## Threshold

Threshold (FSC): 9572

## Fluidics

FACSFlow Pressure: 3.90 Sample Pressure: 3.60
Spec.: 3.80 - 4.00

Comments